



TPD

Case No. BP0207US-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/765,458

Confirmation No.: 8587

Applicant(s) : Pappin et al.

Filed : 01/27/2004

TC/A.U. : 1743

Examiner : To be assigned

For : **METHODS AND MIXTURES
PERTAINING TO ANALYTE
DETERMINATION**

Customer No. : 23544

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the US Postal Service as First Class Mail addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

Date of Deposit: May 11, 2006

Signature: Patricia E. Tucci

Name of Depositing Party: PATRICK E. TOCCI

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants submit herewith patents, publications or other information listed on the attached Information Disclosure Statement of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

This Information Disclosure Statement:

- (a) ☐ accompanies a new patent application submitted herewith.
- (b) ☐ is filed within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 CFR §1.491.
- (c) ☒ as far as is known to the undersigned, is filed before the mailing date of a first Office action on the merits.
- (d) ☐ as far as is known to the undersigned, is filed before the mailing date of a first

- Office action after the filing of a request for continued examination under § 1.114.
- (e) ☐ is filed after the first Office Action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final action under § 1.113, a notice of allowance under § 1.311, whichever occurs first, and is ~~accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a~~ certification as specified in 37 CFR § 1.97(e), as checked below. Should any fee be due, the U.S. Patent and Trademark Office is hereby authorized to charge Deposit Account No. 01-2213 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement. Any deficiency or overpayment should be charged or credited to this deposit account. **A duplicate of this sheet is enclosed.**
- (f) ☐ is filed after the mailing date of either a final rejection or a notice of allowance, but on or before the payment of the issue fee, and is accompanied by the fee (\$180) set forth in 37 CFR § 1.17(i)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. **This document is to be considered as a petition requesting consideration of the information disclosure statement.** The U.S. Patent and Trademark Office is hereby authorized to charge Deposit Account No. 01-2213 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement. Any deficiency or overpayment should be charged or credited to this deposit account. **A duplicate of this sheet is enclosed.**

[If either of boxes (e) or (f) is checked above, the following "certification" under 37 CFR § 1.97(e) may need to be completed.] The undersigned certifies that:

- ☐ Each item of information contained in the information disclosure statement was first cited in a communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this information disclosure statement.

A copy of the items on the Information Disclosure Statement that are not United States Publications:

☒ are supplied herewith.

☐ are not supplied because they were previously cited by or submitted to the Office in application Serial No. _____, filed _____ and relied upon in this application for an earlier filing date under 35 USC § 120.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR §1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR §1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR §1.98 and MPEP §609 and the Examiner is respectfully requested to consider the listed references.

Respectfully submitted,

Date:

May 10, 2006

Brian D. Gildea

Brian D. Gildea
Attorney for Applicants
Reg. No. 39,995
Telephone: 508-383-7632
Customer No.: 23544

Applied Biosystems
500 Old Connecticut Path
Framingham, MA 01701

U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE						Atty Docket No.		Application No.	
						BP0207-US 1		10/765,458	
REFERENCES CITED BY APPLICANTS (Use several sheets if necessary)						Applicant			
						Pappin, Darryl J.C. et al			
						Filing Date		Group	
						01/27/04		1743	
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	AV	US2005/0049406 A1	03/03/2005	Lerchen et al					
	AW	US2002/0192720 A1	12/19/2002	Parker et al			5/8/2001		
FOREIGN PATENT DOCUMENTS									
							TRANSLATION		
		DOCUMENT Number	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	BY	EP0990047 B1	2/4/1999				<input type="checkbox"/>	<input type="checkbox"/>	
	BZ	WO03/056343	07-10-2003				<input type="checkbox"/>	<input type="checkbox"/>	
	BBA	WO03/078584	09-25-2003				<input type="checkbox"/>	<input type="checkbox"/>	
	BBB	WO04/086050	10-07-2004				<input type="checkbox"/>	<input type="checkbox"/>	
							<input type="checkbox"/>	<input type="checkbox"/>	
							<input type="checkbox"/>	<input type="checkbox"/>	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	GS	Theodora W. Greene & Peter G.M. Wuts, <u>Protective Groups in Organic Synthesis</u> 3 rd ed./ John Wiley & Sons, Inc. ©1999, ISBN 0-471-16019-9							

	GT	Barlett Jones, M., et al., "Peptide Ladder Sequencing by Mass Spectrometry Using a Novel, Volatile Degradation Reagent", Rapid Communications in Mass Spectrometry, Vol 8, 737-742 (1994)
	GU	Day, Richard et al, "N-Terminal Groups in Mass Spectrometry of Peptides. A Study Including Some New and Useful Derivatives", J. Org. Chem., Vol 38, No. 4, 1975 782-788
	GV	Duffield, A. et al., "Mass Spectrometry in Structural and Stereochemical Problems LVIII. A Study of the Fragmentation Processes of Some Lactams", Contribution from the Department of Chemistry of Stanford University, Stanford, CA, August 5, 1964, pps. 5536-5541
	GW	Gatlin, C et al, "Copper(II) Amino Acid Complexes in the Gas Phase", J. Am. Chem. Soc. 1995, 117, 3637-3638
	GX	Gatlin, C et al, "Carboxylate and Amine Terminus Directed Fragmentations in Gaseous Dipeptide Complexes with Copper (II) and Diimine Ligands Formed by Electrospray, Anal. Chem. 1996, 68, 263-270
	GY	Haralambidou, E., et al., "Effect of Distal Positional Isomerism on Peptide Fragmentation. A Comparison of Dimethylaminobenzylidene and Benzoyl Derivatives", Organic Mass Spectrometry, 10: 683-697 (1975)
	GZ	Medzihradszky, Katalin et al, "Peptide Sequence Determination by Matrix-Assisted Laser Desorption Ionization Employing a Tandem Double Focusing Magnetic-Orthogonal Acceleration Time-of-Flight Mass Spectrometer", American Society for Mass Spectrometry, 1996, 7, 1-10
	HA	Spengler, R et al, "Peptide Sequencing of Charged Derivatives by Postsource Decay MALDI Mass Spectrometry", International Journal of Mass Spectrometry and Ion Processes, 169/170 (1997) 127-140
	HB	SuBmuth, R., et al, "Impact of Mass Spectrometry on Combinatorial Chemistry", Journal of Chromatography B, 725 (1999) 49-65
	HC	Roth, Kenneth et al, "Charge Derivatization of Peptides for Analysis by Mass Spectrometry", Mass Spectrometry Reviews, 1998, 17, 255-274
	HD	Zhu, Xuegong et al, "Peptide Quantification by Tandem Mass Spectrometry", Mass Spectrometry Reviews, 1996, 15, 213-240
	HE	Peng, Junmin et al, "Proteomics: the move to mixtures", Journal of Mass Spectrometry, 2001: 36, 1083-1091
	HF	Ross, Philip et al, "Investigation of Chemical Derivatization for Peptide CID Using LC-MALDI TOF MS/MS", Applied Biosystems Poster Number ThPF 250
	HG	Huang, Yulin et al, "A Method for High Efficiency Peptide Sequencing Using Combined Enzymatic Digestion and Chemical Derivatization on MALDI MSMS", Applied Biosystems Poster Number 1159
	HH	Sherman, Nicholas et al, "A Novel N-Terminal Derivative Designed to Simplify Peptide Fragmentation", Proceedings of the 43 rd ASMS Conference on Mass Spectrometry and Allied Topics, Atlanta, Georgia, May 21-26 1995, pp 626-627
Examiner		Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>		